

REMARKS

The Office Action dated 4 June 2008 has been fully considered by the Applicant.

Enclosed is a Petition To Request a Two-Month Extension of Time. The Commissioner is herein authorized to charge Deposit Account 08-1500 for the cost of the Two-month Extension of Time.

Claims 1 and 7 have been currently amended. Claims 4, 6, and 8-9 have been previously presented. Claims 2, 3 and 5 have been canceled.

Claims 1-4 and 6-9 have been rejected under 35 USC 103(a) as being unpatentable over United States Patent No. 6,351,474 to Robinett et al and further in view of United States Patent No. 6,134,419 to Williams. Reconsideration of the rejection is respectfully requested.

Claim 1 has been currently amended to provide a data processing system for data received by a broadcast data receiver comprising: (a) a broadcast data receiver provided for receiving multiple transport streams of digital data transmitted from remote locations and may be from different sources, the digital data in each transport stream includes a series of packets of data provided with associated codes to indicate the type of data i.e video, audio and/or auxiliary data; (b) the receiver is provided with a plurality of tuners, each of which receives a transport stream of digital data; (c) the receiver is provided with means for the selection and combination of packets of data from the multiple transport streams of data multiplexed into a single stream of data in response to control commands; (d) the selected packets of data combined and further processed to generate video and/or audio and/or auxiliary data therefrom; (e) each transport stream of data including transport packets provided with packet identification codes for the packets of data in the stream, and a transport stream identification

code is added to each of the transport packets at a position other than that of the packet identification code so as not to change the packet identification codes and to allow identification and differentiation of each of the packets of data in terms of the specific stream of data from which they originate, and selection of the appropriate data packets to form the said multiplexed single stream of data received by the receiver, and (f) wherein the addition of the transport stream identification code allows the differentiation of a packet of data in a first transport stream from any packet of data in a further transport stream which has the same packet identification code. Clearly these features are not taught or suggested in the cited references and, therefore, Applicant believes they are patentable over the references.

Claim 1 has been amended to include the feature that the transport stream identification code (TSID) is added to the transport packets at a position other than that of the packet identification code (PID) so as not to change the same. Claim 7 has been amended in a similar fashion.

The Examiner states that Robinett does not teach overwriting of PID values as a PID filter map is instead created. However, a filter map either does not add TSIDs to the transport packet as required by claim 1, or if it does it involves changing the PIDs in contrast to claim 1.

More specifically, according to Robinett it is clear that remapping of the PID of a transport packet (column 16, lines 5-6) means that the PID is overwritten (col 20, lines 34-36). Robinett does not teach addition of a TSID to a transport packet, only that an incoming transport stream may already be inherently provided with a TSID (as per the examiner's interpretation in the office action dated 12th October 2007). Thus, even if Robinett could be considered to teach addition of a TSID, it would be by amendment of the PID as described above.

Consider the following schematic example of a four-byte transport packet header (diagram 1), where the individual bytes are indicated as T, PID, V1 and A1;

Diagram 1:

T	PID	V1	(unused)
ABCD	EFGH	IJKL	MNOP

According to Robinett, the PID byte would be amended, e.g. as in diagram 2:

Diagram 2:

T	PID'	V1	(unused)
ABCD	WXYZ	IJKL	MNOP

which would then incur additional processing as the contents of many other packets have to be modified to compensate for the change.

However, in the present invention, the PID is not changed as a TSID is added at an alternative position, e.g. by re-using superfluous bits as illustrated in diagram 3, so that the additional processing is not required:

Diagram 3:

T	PID	V1	(unused)
ABCD	EFGH	IJKL	WXYZ

Thus, Robinett teaches away from the invention, as the PID is changed when it is overwritten (col 20 lines 34-36). Robinett changes the PID to maintain the compliance of the stream, i.e. so that regular PIDs appear in the places you would expect them. However, additional processing is required as the contents of many other packets have to be modified, as the data that they carry, which is used to navigate the programmes within the transport stream, would need to be updated with the new PID values that were used to overwrite the previous PIDs

In contrast the invention adds a TSID to a transport packet without modifying the PID thereof, by inserting the TSID at a different position in the transport packet to the PID position. The advantage of the invention is that the additional processing required to process the amended PIDs as per Robinett is not required, and the low cost processing requirements of a broadcast data receiver using the data processing system of the invention can be maintained. Accordingly, the present invention is capable of receiving multiple streams of data to generate video, audio or auxiliary data without rewriting the packet identification codes.

While Williams discloses receipt of multiple programming signals from different sources and a plurality of tuners, it is otherwise dissimilar.

Accordingly, the combination of Robinett and Williams, taken together, does not equal the claimed invention.

Therefore, Applicant sincerely believes that independent claim 1 is novel and non-obvious over the cited references and respectfully requests reconsideration of the rejection.

Claims 4 and 6 depend upon currently amended claim 1 and are believed to be patentable over the references for the same reasons as stated above.

Independent claim 7 is directed toward a method for generation of a single stream of data for subsequent processing from multiple transport streams of data comprising the steps of: (a) simultaneously receiving a number of different transport streams of data via a plurality of tuners in a receiver; (b) selecting packets of data from the different transport streams in accordance with user and/or receiver selection criteria; (c) multiplexing the selected packets of data into a single stream of data by the receiver; (d) allocating a transport stream identification code to each of the received transport streams of data; (e) allocating a packet identification code to each packet of data; (f) controlling the selection with reference to the appropriate transport stream identification code for the particular transport stream of data in which the data packet to be selected is located when the selection of a data packet is required; (g) selecting the required data packet once the appropriate transport stream is identified therefrom with reference to the packet identification code allocated to each of the packets for that transport stream of data; and (h) repeating the steps for each of the data packets required to form the single stream of data and the provision of a transport stream identification code for each transport stream of digital data which is received differentiates packets of data contained in other received transport streams which have the same packet identification code; and (I) wherein the transport stream identification codes are allocated at a position in the packet other than that of the packet identification code so as not to modify the packet identification codes.

Applicant believes that claim 7, along with dependent claims 8 and 9, is novel over the cited references for the same reasons as set forth above with reference to claim 1. Therefore, Applicant respectfully requests reconsideration of the rejection.

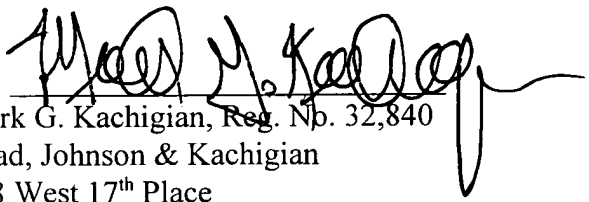
It is believed that the claims as currently amended define the invention over the cited references.

It is believed that the foregoing is fully responsive to the outstanding Office Action. If, for any reason, the claims are not in condition for allowance, it is because of a mistake or a misunderstanding of the Office Action and in such case, the Examiner is invited to call the undersigned at (918) 587-2000 so that any remaining amendments to place the application in condition for allowance can hopefully be achieved in a telephone interview. If any charges or refunds are associated with this application, the Commissioner is hereby authorized to charge Deposit Account No. 08-1500.

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Respectfully submitted,

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